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*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

July 20, 2004

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Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Group Art Unit 2661

Re:

U.S. Utility Patent Application

Appl. No.: 10/823,626; Filed: April 14, 2004

Method and System for Adaptive Modulation Scheduling

Inventors: Alan GIN *et al.*Our Ref: 1875.4090001

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Original executed Power of Attorney from Assignee;
- 2. Original executed Statement Under 37 C.F.R. § 3.73(b), with a copy of the Assignment attached; and
- 3. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents July 20, 2004 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSKER, GOLDSTEIN & FOX P.L.L.C.

Theodore A. Wood Attorney for Applicants Registration No. 52,374

JTH/TAW:ddc Enclosures

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POWER OF ATTORNEY FROM ASSIGNEE

Broadcom Corporation, a corporation of California, having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-3616, is assignee of the entire right, title, and interest for the United States of America (as defined in 35 U.S.C. §100), by reason of an Assignment to the Assignee executed on 1) April 13, 2004, 2) April 13, 2004, 3) April 14, 2004, 4) April 14, 2004 of an invention known as Method and System for Adaptive Modulation Scheduling, (Attorney Docket No. 1875.4090001), that is disclosed and claimed in a patent application of the same title by the inventors 1) Alan GIN, 2) Dorothy D. LIN, 3) Jen-Chieh CHIEN and 4) Rocco BRESCIA, Jr. (said application filed on April 14, 2004 at the U.S. Patent and Trademark Office, having Application Number 10/823,626).

For the purpose of PAIR, the Customer Number is 26111.

The Assignee hereby appoints the U.S. attorneys associated with CUSTOMER NUMBER 28393 to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michael A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Lawrence B. Bugaisky, Esq., Registration No. 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987. The Assignces hereby grant said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

Customer Number 26111
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Broadcom Corporation

SIGNATURE:

Dee Henderson

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Manager, Intellectual Property Portfolio

DATE.

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STATEM	ENT UNDER 37 CFR 3.73(b) Docket No. 1875.4090001	
Applicant/Patent Owner: Alan GIN et al.		
Application No./Patent No.: 10/823,626	Filed/Issue Date: April 14, 2004	
Entitled: Method and System For Adaptive Modulation Scheduling		
Broadcom Corporation (Name of Assignee)	, a <u>Corporation</u> (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)	
states that it is: 1. 1. 1. 1. 1. 1. 1. 1.	est; or	
2. an assignee of less than the entire right, title a The extent (by percentage) of its ownership in in the patent application patent identified above by v	terest is ————%	
A. [x] An assignment from the inventor(s) of the pate was recorded in the Patent and Trademark Off a copy thereof is attached.	nt application/patent identified above. The assignment ice at Reel, Frame, or for which	
OR		
B. [] A chain of title from the inventor(s), of the pate assignee as shown below: 1. From:		
The document was recorded in the f	Patent and Trademark Office at, or for which a copy thereof is attached.	
2. From:	To:	
The document was recorded in the leading the leading to the leadin	Patent and Trademark Office ator for which a copy thereof is attached.	
3. From:	То:	
The document was recorded in the F Reel, Frame	ratent and Trademark Office at, or for which a copy thereof is attached.	
[] Additional documents in the chain of titl	le are listed on a supplemental sheet.	
[] Copies of assignments or other documents in the [NOTE: A separate copy (i.e., the original assignment be submitted to Assignment Division in accrecorded in the records of the PTO. See MPEP	nment document or a true copy of the original document) cordance with 37 CFR Part 3, if the assignment is to be	
The undersigned (whose title is supplied below) is at the supplied below is at the supplied below.	uthorized to act on behalf of the assignee. Dec Henderson	
Telephone number	Signature	
	Manager, IP Portfol, O	

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: 1) Alan GIN, 2) Dorothy D. LIN. 3) Jen-Chieh CHIEN and 4) Rocco BRESCIA, Jr., the undersigned inventors hereby sell and assign to Broadcom Corporation, a corporation formed under the laws of California (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

- (a) in the invention(s) known as Method and System for Adaptive Modulation Scheduling for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) 4/13/2004, 2) 4/13/2004, 3) and 4)4/4/2004 (also known as United States Application No. (To Be Assigned), filed (Herewith), (Attorney Docket No. 1875.4090001) in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

Appl No.: (To Be Assigned) Docket No. 1875,4090001

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s) James D. Bennett, Registration No. 37,550, and David J. Rosmann, Registration No. 43,059, of Broadcom Corporation. 16215 Alton Parkway, Irvine, CA 92618-3616, and Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michele A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Lawrence B. Bugaisky, Esq., Registration No. 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987. all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, a	executed by the undersigned inventors on the date opposite
Date: 4 13 2004	Signature of Inventor: Our Sh
Date: 4/(3/2004	Signature of Inventor: Drofthy D. LIN
Date:	Signature of Inventor:
Date: 4/14/2004	Signature of Inventor: Locco Suscential A) Rocco BRESCIA, Jr
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DO NOT FORWARD TO ASSIGNMENT BRANCH NOT FOR RECORDATION

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: 1) Alan GIN, 2) Dorothy D. LIN, 3) Jen-Chieh CHIEN and 4) Rocco BRESCIA, Jr., the undersigned inventors hereby sell and assign to Broadcom Corporation, a corporation formed under the laws of California (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

- (a) in the invention(s) known as Method and System for Adaptive Modulation Scheduling for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1).

 3) 04 14 2004 and 4).

 (also known as United States Application No. (To Be Assigned), filed (Herewith), (Attorney Docket No. 1875.4090001) in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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Appl No.: (To Be Assigned) Docket No. 1875.4090001

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IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date:	Signature of Inventor: _	
	_	1) Alan GIN
Date:	Signature of Inventor:	
	•	2) Dorothy D. LIN
Date: 04/14/2004	Signature of Inventor:	3) Jen-Chieb-Chien
Date:	Signature of Inventor:	4) Rocco BRESCIA, Jr.
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